

ABSTRACT OF THE DISCLOSURE

A high efficiency elastic porous filter material is made from a composition of a mixture of powder of ultra high molecular weight polyethylene, high density polyethylene and low density polyethylene and a selected filler material. The filter material is insert to acid, alkaline
5 and other corrosive fluid, and has evenly distributed same size interstice openings or voids.

Impurities in the fluid, air, or oil being filtered are suspended outside of the filter material without causing clogging to occur in the interstice openings. The material may be fabricated in various shapes for various filter operations by fusing the mixture in selected molds.